In the Claims:

- 1. (Currently Amended) A control system for an automotive vehicle having a steering actuator comprising:
- a plurality of sensors generating a plurality of signals corresponding to a dynamic condition measured vehicle conditions of the vehicle; and
- a controller coupled to the plurality of sensors, said controller determining a lateral force in response to the measured vehicle conditions, determining a slip angle in response to measured vehicle conditions, determining a first steering actuator angle change to decrease the slip angle until the lateral force increases, thereafter, determining a second steering actuator angle change to increase the slip angle until the lateral force decreases.
- 2. (Previously Presented) A system as recited in claim 1 wherein said steering actuator comprises a front right wheel actuator and a front left wheel actuator.
- 3. (Previously Presented) A system as recited in claim 2 wherein said front right wheel steering actuator and said front left steering actuator are independently controllable.
- 4. (Previously Presented) A system as recited in claim 3 wherein said controller generates a front right control signal and a front left control signal in determining a first steering actuator angle change and determining a second steering actuator angle change.
- 5. (Previously Presented) A system as recited in claim 1 wherein said steering actuator comprises a rear steering actuator and a front steering actuator.
- 6. (Previously Presented) A system as recited in claim 1 wherein said controller determines a rear steering control signal in determining a first steering actuator angle change and determining a second steering actuator angle change.

A method of controlling a vehicle having a steering 7. (Original) actuator comprising:

> determining a lateral force in response to measured vehicle conditions; determining a slip angle in response to measured vehicle conditions;

determining a first steering actuator angle change to decrease the slip angle until the lateral force increases;

controlling the steering actuator in response to the first steering actuator change angle;

thereafter, determining a second steering actuator angle change to increase the slip angle until the lateral force decreases; and

controlling the steering actuator in response to the second steering actuator change angle.

- A method as recited in claim 7 wherein determining a 8. (Original) first steering actuator angle change to decrease the slip angle until the lateral force increases is performed independent of a handwheel position.
- A method as recited in claim 7 wherein controlling the 9. (Original) steering actuator in response to the first steering actuator change angle and controlling the steering actuator in response to the second steering actuator change angle comprises controlling a front steering actuator.
- A method as recited in claim 7 wherein controlling the 10. (Original) steering actuator in response to the first steering actuator change angle and controlling the steering actuator in response to the second steering actuator change angle comprises controlling a rear steering actuator.
- A method as recited in claim 7 wherein controlling the 11. (Original) steering actuator in response to the first steering actuator change angle and controlling the steering actuator in response to the second steering actuator change angle comprises controlling a front right steering actuator.

- A method as recited in claim 7 wherein controlling the 12. (Original) steering actuator in response to the first steering actuator change angle and controlling the steering actuator in response to the second steering actuator change angle comprises controlling a front left steering actuator.
- 13. (Currently Amended) A method of controlling a vehicle having a steering actuator comprising:

determining a lateral force in response to measured vehicle conditions; and

controlling the steering actuator in response to the lateral force to maximize the lateral force by changing a steering angle to increase the lateral force until the lateral force decreases, then changing the steering angle until the lateral force increases.

- A method as recited in claim 13 wherein controlling 14. (Original) the steering actuator comprises changing a slip angle to maximize the lateral force.
 - 15. (Cancelled)